respectfully traversed.

REMARKS

Claims 1-18 are pending in the present application. Claims 1, 6 and 17 are independent.

Claims 1-5 have been rejected under 35 U.S.C. § 103 as being unpatentable over Searby (EP 0589724) in view of Applicants' disclosed related art (AAPA) (sic) and further in view of Patton et al. (U.S. Patent 6,795,209), Zhou (U.S. Pub. No. 2002/0015447) and Baggs et al. (U.S. Pub. No. 2003/0231801). Claims 6-17 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Searby with Applicants' disclosed related art (sic), Patton et al., Zhou, Baggs et al. and further in view of Ishikawa (U.S. Pub. No. 2002/0140987). These rejections are

As a first point of order, Applicants submit that the summary of the rejection in paragraph 11 of the Official Action is confusing at best, and probably in error. That is, the rejection states that the claims are rejected "...as being unpatentable over EP 0589724 (....Searby) with Applicant's admitted prior art (Application No. 10/607,057)..." Applicants note that Application No. 10/607,057 is the present application, and that Searby is prior art discussed in Applicants' specification. Because Searby is Applicants' admitted prior art, it is not possible for the claims to be unpatentable over EP 0589724 (....Searby) with Applicant's admitted prior art. Furthermore, the discussion of the rejection refers to Searby and makes no reference to AAPA. Thus, Applicants interpret the rejection to be based on four references (Searby (i.e., AAPA), Patton, Zhou and Baggs) rather than five references. If Applicants' interpretation is incorrect, Applicants request the current rejection be replaced with a new, non-final rejection with the grounds of rejection properly stated.

Briefly recapitulating, claim 1 is directed to

An image scanning and processing system, comprising

a scanner for generating a stream of data encoding a scanned image;

a controller for controlling and processing data received from the scanner; and

file storage means, wherein, in use, the stream of data is written to a master file saved in the file storage means, and the controller is configured to create a preview image with a lower data size than the scanned image from at least part of the data encoding the scanned image, wherein the controller is further configured to extract data encoding the preview image <u>from the stream of data</u>, and to write the extracted data to a thumbnail file.

Claim 6 is directed to

A method of scanning and processing an image, comprising:

scanning an original and thereby generating a stream of data;

encoding a scanned image;

saving the scanned image in a master file; and

creating a preview image with a lower data size than the scanned image from at least part of the data encoding the scanned image,

wherein data encoding the preview image is <u>extracted from the stream</u> of data, and written to a thumbnail file.

As noted in paragraph 005 of Applicants' originally filed specification, in AAPA, an initial high-resolution image is held in a high capacity storing unit. The system comprises a small capacity high speed storing unit and is arranged to transfer portions of the initial high-resolution image to the small capacity high speed storing unit a portion at a time. The system also comprises a viewing store for storing data representing an image to be displayed and a monitor for displaying the image. The system is arranged to operate in a preview mode. In this preview mode, image data is down converted and written to a destination area for output to the viewing store. The down-conversion of the data is performed by the control processor.

As noted in paragraph 006 of Applicants' originally filed specification, in the related art, if an operator wishes to select a section from the scanned image, a preview image of the entire scanned image would have to be created first. This requires processing of all the data comprised in the master file. From a display of the preview image, the user would be able to select a section of the scanned image. This could then be retrieved from the master file for display. But, such a process is time consuming and strains the processing capacity of the controller and its memory to the utmost. Additionally, if one wanted to check a second area, the whole process would have to be repeated again, rendering the system to be rather inefficient.

However, in Applicants' invention, as noted in paragraph 010 of Applicants' originally filed specification, a preview image is extracted *from a stream of data*, and written to a thumbnail file. Thus, a small file may be quickly made available. Even though it is a small file, the preview image is representative of an entire area of a scanned image. Because the preview file is created *directly from the stream of data*, it is available directly after, or even before the scanning is finished. Thus, the preview file can be used for a quick check of the scanning process without requiring processing of large amounts of data comprised in the master file.

Applicants interpret the Official Action as alleging that Searby, modified in view of Patton, Zhou and Baggs, discloses or suggests the invention as set forth in independent claims 1, 6 and 17. Applicants respectfully disagree.

Searby describes an electronic image processing system 1 that includes a large capacity store 2 including a source area 3 for storing data representing an initial image and a destination area 4 for storing data representing a modified image. A controller processor 5 translates calculates transformation parameters and controls the transfer of portions of initial image data to

Application No. 10/607,057

Amendment dated February 21, 2008

Reply to Office Action of March 9, 2007

a high speed low capacity cache store 9. A spatial filter 10 tranforms the data in the cache store 9

so that the modified image portion data is written to the destination area 4. The system of Searby

is arranged to operate in a preview mode during which the user may experiment with

transformations of the image without committing to a given transformation until he is satisfied

with the effect. In this preview mode, image data from the source 3 is down converted,

transformed and then written to the destination area of the source store 2 for output to the

viewing store 7.1

However, Searby does not disclose or suggest Applicants' claimed thumbnail file.

Indeed, the Official Action provides no citation for Applicants' claimed thumbnail file.

Furthermore, Searby does not disclose or suggest a controller that is configured to extract data

encoding the preview image from the stream of data that is written to a master file. That is, there

is no extraction directly from a stream. Because Searby does not disclose or suggest extracting

data from a stream of data, Searby also fails to disclose or suggest writing any corresponding

extracted data to any file, let alone to Applicants' claimed thumbnail file.

Applicants have considered the remaining references and submit that the remaining

references do not cure the deficiencies of Searby. As none of the cited art, individually or in

combination, discloses or suggests at least the above-noted features of independent claims 1 and

6, Applicant submits the inventions defined by claims 1 and 6, and all claims depending

therefrom, are not rendered obvious by the asserted references for at least the reasons stated

above.2

¹ Searby column 5, lines 6-20

² MPEP § 2142 "...the prior art reference (or references when combined) must teach or suggest all the claim

limitations.

5

EHC/MEM/srm

Docket No.: 0142-0411P

A method for selecting one of a plurality of master files comprising data encoding at least one scanned image, wherein the master file is created by scanning an original and thereby generating a stream of data, encoding a scanned image, and saving the scanned image in a master file, the method comprising:

providing at least part of a thumbnail file associated with one of the master files to an archive manager, said part of the thumbnail file including data encoding a preview image corresponding to the scanned image with a lower data size than the scanned image, whereby the archive manager can display the parts as survey previews to the user for selection.

As noted above, Searby and the above noted references each fail to disclose or suggest Applicants' thumbnail file. Thus, claim 17, and all claims depending therefrom, patentably define over the applied references.

Finally, as noted above, the current rejections fail to address each feature recited in Applicants' pending claims. Furthermore, the features that are addressed in the current rejections are not addressed in an organized and comprehensible manner. That is, features of Applicants' claims 1-5 are addressed in paragraph 11 of the Official Action in seemingly random order. To promote efficient prosecution of the present application, Applicants respectfully request that any future rejection of Applicants' claims be organized on an individual claim-by-claim basis with each feature of each claim discussed with clear citations to column and line, or figure indicia, of any applied reference.

6

Docket No.: 0142-0411P

Application No. 10/607,057 Amendment dated February 21, 2008 Reply to Office Action of March 9, 2007

Conclusion

For the foregoing reasons and in view of the above clarifying amendments, the Examiner is respectfully requested to reconsider and withdraw all of the objections and rejections of record, and an early issuance of a Notice of Allowance is respectfully requested.

Should there be any matters which need to be resolved in the present application, the Examiner is respectfully requested to contact Micheal E. Monaco, Registration No. 52,041, at the telephone number of the undersigned below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37.C.F.R. §§1.16 or 1.14; particularly, extension of time fees.

Dated: February 21, 2008

Respectfully submitted,

Esther H. Chong

Registration No.: 40,953

BIRCH, STEWART, KOLASCH & BIRCH, LLP

8110 Gatehouse Road

Suite 100 East

P.O. Box 747

Falls Church, Virginia 22040-0747

Attorney for Applicant

7